

## Terwilliger Fire Danger Tree Equipment

### Schedule of Items

(Working with Contract Specialist Lorenzo Montoya)

Scope of Work: Danger Trees on suppression fire lines are throughout the fire perimeter on a variety of complex terrain that requires specialized equipment to perform the work in a safe and efficient manner. Roads vary from main paved roads with no shoulder and parallels rivers to standard level 2 forest roads with surface rock and native surfaces. Terrain varies from flat and rolling to steep and rocky with deep drainages. Work to be performed includes directional felling of trees, skidding of trees, processing of trees, decking of logs, and piling of slash. Due to the large number of danger trees along these roads and complexity of terrain, orderly operations will be necessary to facilitate a challenging task in a safe manner. Forest Service personnel will provide plans to help be successful in mitigating hazards from the fire, and provide guidance to ensure resource protections are in place and adhered to. Forest Service will provide a guide for identifying danger trees that shall be followed and will provide guidance as needed throughout the life of the contract. Resource concerns will be identified on the ground and made known so avoidance and protection occurs.

Equipment Needed: Due to the varied complexities of this work, a multitude of equipment is needed to be successful. Rubber tired machines are needed to work on pavement, skidders with cable line is needed for hand felled trees on steep slopes where trees are hung up. Shovels are needed to be able to reach on tall cut banks above roads and fully suspend trees in resource sensitive areas. The following describes specific needs and equipment capabilities to successfully perform this work: Harvesters will need to be able to cut and process danger trees on broken and rocky terrain. Harvester operators will need to identify and directionally fell danger trees per felling specifications provided by the Forest Service. Danger Tree identification specs will be in Designation by Prescription form, prescribing a desired outcome based off specific fire and physical damage. Forest Service personnel will be available to monitor this identification process. Felling to lead for safe and efficient tree removal as well as contour felling in resource sensitive areas will be required. Felling trees up to 20" and possibly greater is needed. Bunching trees to facilitate efficient skidding/forwarding and reducing soil impacts is required. Grouzers will need to be removed from the rubber tires to allow for traveling over paved roads. Forwarders will need to fully suspend trees and logs from the point of felling to deck locations identified by the Forest Service. Grouzers will need to be removed from the rubber tires to allow for traveling over paved roads. Skidders will skid logs from point of felling or bunching to decks identified by the Forest Service. Skidders shall stay on routes that will reduce soils as much as possible. Cable line may need to be pulled from the skidders to retrieve logs on steep ground. Tire chains may need to be removed for traveling over pavement. Processors will need to delimb and buck trees to preferred lengths identified by the Forest Service. Slash shall be managed in a way to allow for safe and clean piling. Processors may be working with a Shovel for

sorting and decking, however, if a shovel is not available at the time of processing, the processor is expected to sort and deck as best as possible. Shovels will need to retrieve trees off cut banks and bunch trees on roads to facilitate safe and efficient skidding. Shovel logging certain areas may be required. Shovels may be needed to sit at the landing and neatly sort and deck logs by species, length and product as specified by the Forest Service. Shovels may need to fully suspend logs out of resource sensitive areas to protect resources of concern. Transport vehicles (lowboys) will be required to deliver equipment to areas of work throughout the fire area. Transport vehicles may be needed to transport equipment from one road to the next, especially if pavement doesn't allow for walking equipment or roads are too far apart. Transport vehicles will only be on an as needed basis and the Forest Service will keep Contractors informed on timing of needs. Hand fellers will need to identify and directionally fell danger trees per felling specifications provided by the Forest Service. Danger Tree identification specs will be in Designation by Prescription form, prescribing a desired outcome based off specific fire and physical damage. Forest Service personnel will be available to monitor this identification process. Felling to lead for safe and efficient tree removal as well as contour felling in resource sensitive areas will be required. Felling on varied terrain will occur, including steep and rocky ground. Some limited limbing and bucking may be necessary.

All equipment shall work together in a workmanlike and orderly fashion to provide for a safe, efficient, and respectful working environment. Work will be performed in a fire environment and will adhere to safety standards set by the Forest Service, including communications for firefighter personnel. Communication of any discrepancy shall be relayed to Forest Service personnel including the COR and Contracting Officer.